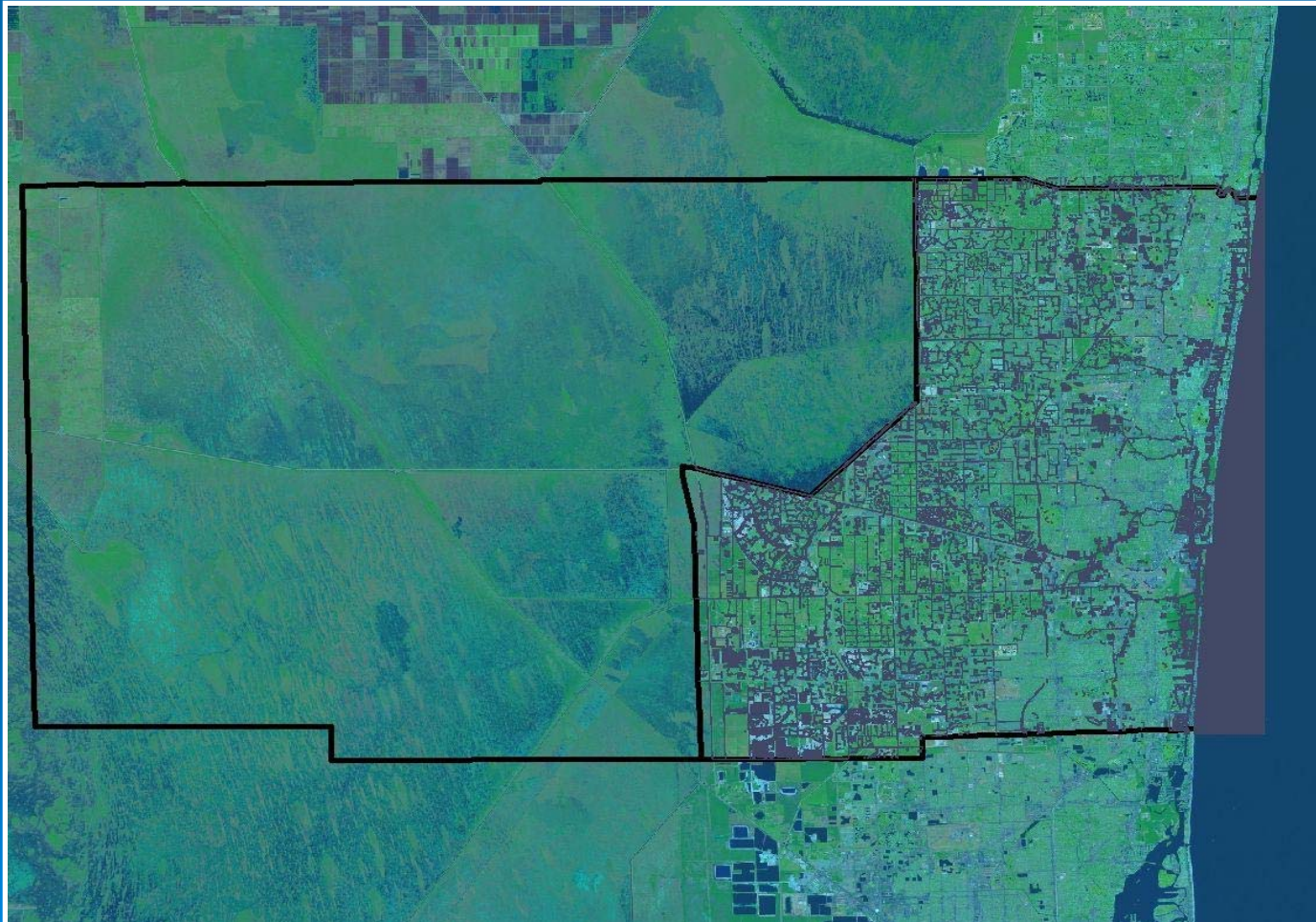


# Water Quality - Everglades and the Urban Environment

Presented to the  
Broward Leaders Water Academy

February 11, 2011

# Broward County



# Protecting the Everglades

- Broward County is a primary source of urban discharge and phosphorus loading to the Everglades water conservation areas
- Nutrient criterion for Everglades is established at 10 ppb phosphorus.
- To meet this target, reductions in phosphorus pollution and loading to the county's surface waters must be a priority.







# Aerial of the S9 Pump Station



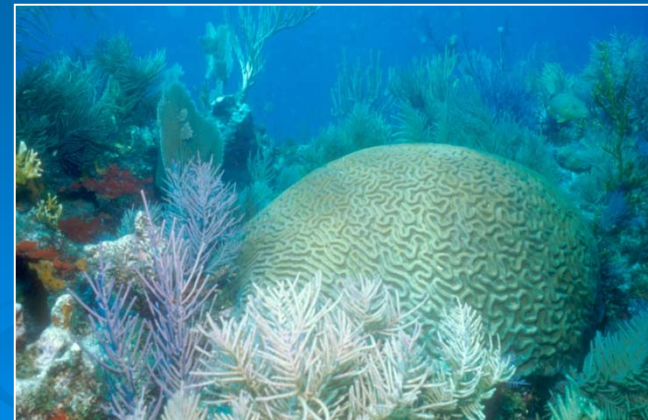


# Discharges at the S9



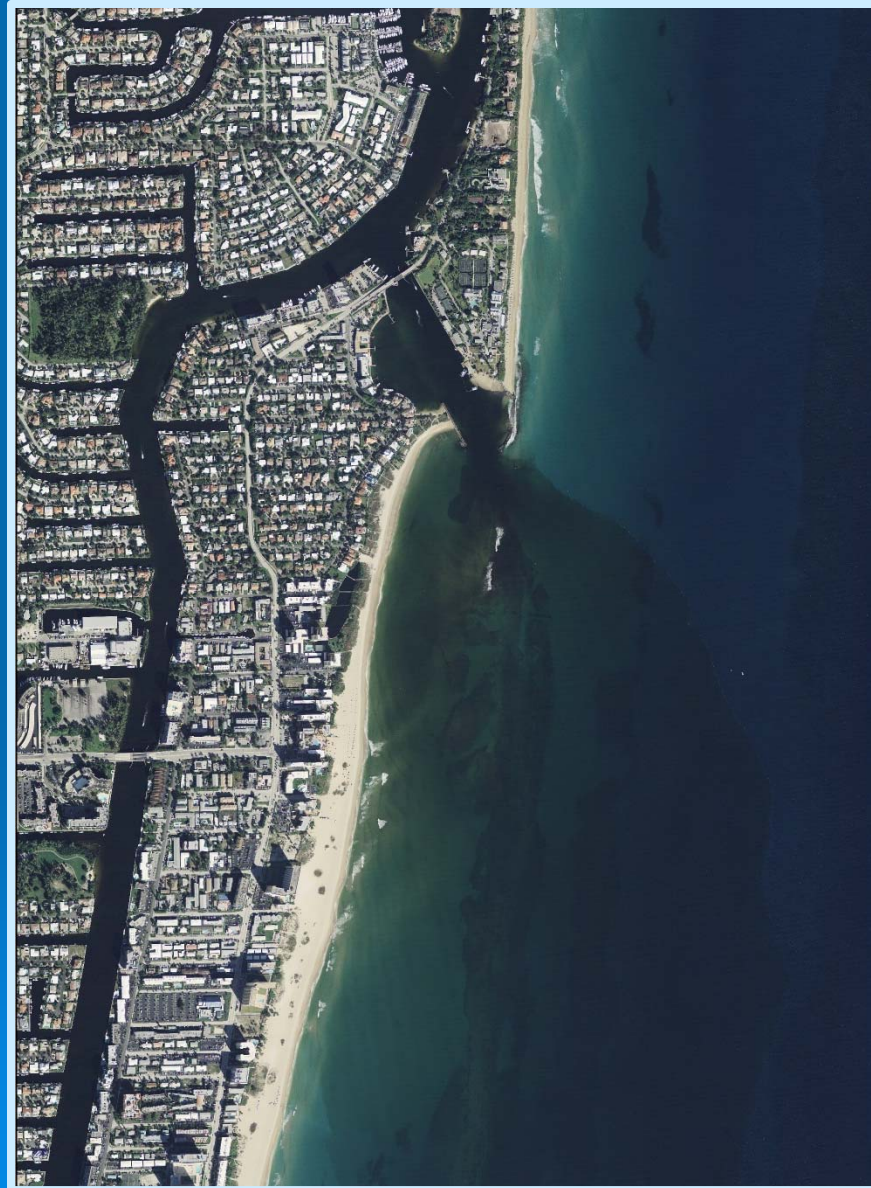
# Protecting our Reefs

- Freshwater discharges are a major source of nutrients to coastal waters affecting water quality and habitat.
- Nutrients support algal growth and blooms, reducing light penetration and degrading reef health.
- Nutrient loads from inlets are thought to be orders-of-magnitude greater than those associated with the ocean outfalls.





# Tidal Discharge – Hillsboro Inlet





# Our Canals Connect Us





# Land Use Influence on Water Quality





# Pump Station that Discharges to the C-11





# Gravity Discharge to the C-11



N





# Floating Sediment Barrier



# Discharge to C-11 and Site of New Sump





# Wet Retention Water Quality Treatment





# Wetland Water Quality Treatment





# Add more opportunities...





# Stormwater Management

- Provides drainage and flood protection
- Reduces the total volume of stormwater discharge
- Provides water quality treatment

When managed well....



# ...We all Benefit

